

Practitioner's Docket No. MPI93-006CP1DV1ACN1DV1M

IN THE CLAIMS:

Please amend claims 27 and 44-47 and cancel claims 30, 32, 34, and 35-41. Please add claims 48-58.

This listing of claims will replace all prior versions, and listings, of claims in the application:

STATUS OF THE CLAIMS:

1-26. (Canceled).

27. (Currently Amended) An isolated C140 receptor polypeptide having a consecutive sequence of at least 15 amino acids and is encoded by a nucleic acid molecule which hybridizes under stringent conditions to a nucleic acid molecule selected from the group consisting of: (a) a nucleic acid molecule complimentary to SEQ ID NO:3, and (b) a nucleic acid molecule complimentary to SEQ ID NO: 62, wherein the stringent conditions are: (1) hybridization in 50% (vol/vol) formamide with 0.1% bovine serum albumin, 0.1% Ficoll, 0.1% polyvinylpyrrolidone, 50 mM sodium phosphate buffer at pH 6.5 with 750 mM NaCl and 75 mM sodium citrate at 42°C; or (2) hybridization in 50% formamide, 5 X SSC (750 mM NaCl, 75 mM sodium citrate), 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5 X Denhardt's solution, sonicated salmon sperm DNA (50 :g/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2 X SSC and 0.1% SDS or with washes at 50°C in 15 mM NaCl, 1.5 mM sodium citrate, and 0.1% sodium dodecyl sulfate, wherein the polypeptide has cross-reactive antigenicity to at least 15 amino acids of the amino acid sequence of SEQ ID NO: 4 or SEQ ID NO:63.

28. (Previously Presented) The isolated polypeptide of claim 27, wherein the polypeptide comprises at least about 75% amino acid sequence identity with either of SEQ ID NOS: 4, or 63.

29. - 43. (Canceled)

44. (Currently Amended) An isolated polypeptide comprising a ~~C140 polypeptide~~ having an amino acid sequence at least 95% identical to an amino acid sequence selected from the group consisting of SEQ ID NO:4 and SEQ ID NO: 63, wherein the polypeptide has cross-reactive antigenicity to at least 15 amino acids of the amino acid sequence of SEQ ID NO: 4 or SEQ ID NO:63.

45. (Currently Amended) ~~An~~ The isolated polypeptide of claim 44, wherein the polypeptide comprises comprising a C140 polypeptide having an amino acid sequence at least 95% identical to SEQ ID NO: 4.

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46. (Currently Amended) An isolated fragment of a polypeptide selected from the group consisting of SEQ ID NO:4 and SEQ ID NO:63. ~~The isolated polypeptide of claim 27 consisting of a fragment of SEQ ID NO: 63~~ wherein the fragment comprises at least 10 consecutive amino acids in length.

47. (Currently Amended) The isolated polypeptide fragment of claim ~~27~~ 46 consisting of a fragment of SEQ ID NO: ~~63~~ 4 ~~wherein the fragment comprises at least 10 consecutive amino acids in length.~~

48. (New) The isolated polypeptide of claim 44 which comprises the amino acid sequence of SEQ ID NO:63.

49. (New) The isolated polypeptide of claim 45 which comprises the amino acid sequence of SEQ ID NO:4.

50. (New) The isolated polypeptide of claim 27, wherein the polypeptide comprises at least about 90% amino acid sequence identity with either of SEQ ID NO: 4.

51. (New) The isolated polypeptide of claim 27, wherein the polypeptide comprises at least about 90% amino acid sequence identity with either of SEQ ID NO: 63.

52. (New) The isolated polypeptide of claim 27, wherein the polypeptide comprises an activated C140 receptor.

53. (New) The isolated fragment of claim 46 encoded by a nucleic acid molecule comprising nucleotides 56-1249 of SEQ ID NO: 3.

54. (New) The isolated fragment of claim 46 encoded by a nucleic acid molecule comprising nucleotides 50-1240 of SEQ ID NO: 62.

55. (New) The isolated fragment of claim 46, comprising amino acids 1-37 of SEQ ID NO: 4, or amino acids 1-36 of SEQ ID NO: 63.

56. (New) The isolated fragment of claim 46, comprising amino acids 31-37 of SEQ ID NO: 4, or amino acids 30-36 of SEQ ID NO: 63.

57. (New) The isolated fragment of claim 46, comprising at least 20 amino acids in length.

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58. (New) The isolated fragment of claim 46, comprising at least 40 amino acids in length.

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